

# PATENT ABSTRACTS OF JAPAN

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(71)Applicant : HITACHI LTD

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(72)Inventor : MURASE MICHIO

FUJIMOTO KIYOSHI

KOBAYASHI MASATO

KAZAMA SEIICHI

## (54) FILTER

### (57)Abstract:

**PROBLEM TO BE SOLVED:** To provide an inexpensive filter having a simple structure, which is capable of evenly supplying a gas for cleaning to plural hollow yarn membrane modules.

**SOLUTION:** A parting plate 20 is provided below the bottom end of a module cylinder 14 in a vessel 11 and a ventilation hole 21 is provided directly below the module cylinder 14 of the parting plate 20 in one-to-one. Water pipes 22 are provided among the plural ventilation holes 21 (for example, one water pipe 22 to 3 ventilation holes 21 are provided). An intake gas pipe 16 is connected to a vessel 11 below the parting plate 20 and an intake gas diffusing pipe 10 having plural intake gas holes 31 is connected to the intake gas pipe 16. At the time of purifying, the gas supplied from the intake gas pipe 16 forms a gas layer having uniform thickness at the lower part of the parting plate 20 and uniformly flows into the respective module cylinders 14 through the ventilation holes 21 to give an adequate vibration to a hollow yarn membrane 13 to remove impurities.

